

APRIL/MAY 2024

BESC64C — SOFTWARE TESTING

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define the term – White-box testing.
2. What is meant by Automation in testing?
3. Define the term – Graph.
4. What are Node and Edge coverage?
5. What are Logic Predicates and Clauses?
6. What is Logic coverage of Finite State Machines?
7. Define the term – Regression testing.
8. List out the different stages in Test Process.
9. What is Real-time Software?
10. Mention the way of Testing Web Services.

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Discuss briefly on Software testing limitations and terminologies.

Or

- (b) Explain the Testing levels based on Test process maturity.

12. (a) Describe briefly on the Graph coverage for Design elements.

Or

- (b) Discuss on the Graph coverage for Use cases.

13. (a) Explain the concept of Input Domain modeling.

Or

- (b) Describe about the Combination Strategies Criteria.

14. (a) Discuss on Syntax-based Coverage criteria.

Or

- (b) Explain the process of Test plans.

15. (a) Describe the method of Testing Web applications.

Or

- (b) Discuss on the unique issues with Testing OO Software and the process of Testing GUIs.



SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the Coverage criteria for Testing.

17. Discuss on Graph Coverage for Source code in detail.

18. Explain the Logic Expression Coverage criteria.

19. Describe about Program-based Grammars in Syntax-based testing.

20. Discuss on the types of Object-oriented Faults.